

MONTHLY MEETING

Friday July 17, 2015

7:30pm

Our Saviors Lutheran Church

1035 Carol Lane Lafayette

Licensing Testing 6pm

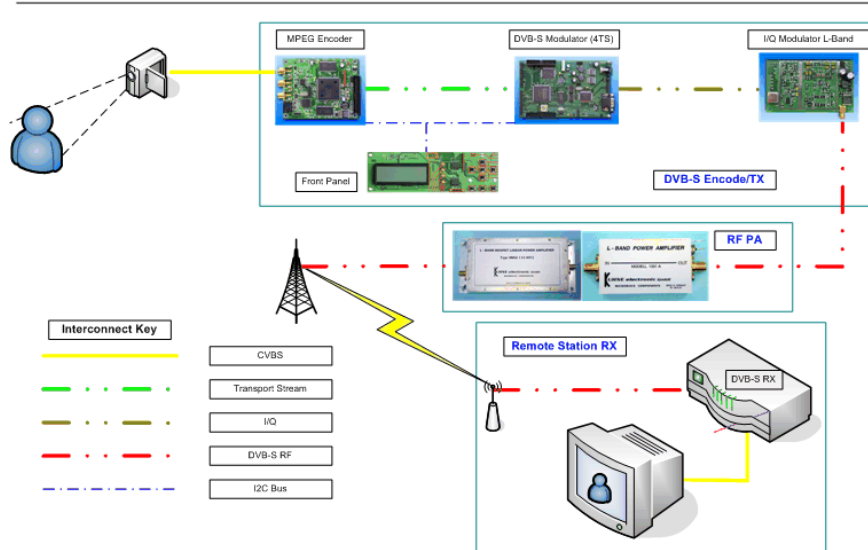
DX Interest Group 6:30pm

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What's Next for Digital Amateur Television at W6CX?

DATV Block Diagram (DVB-S)



G7LWT



Find out at this month's meeting in a presentation by Joel Wilhite, KD6W

**When you purchase at
Amazon dot com smile, a
portion of your purchase
is donated to our club.**

**Go to:
[https://smile.amazon.com/
ch/23-7072059](https://smile.amazon.com/ch/23-7072059)**



ALL MEMBERS ARE INVITED TO JOIN
THE CLUB YAHOO GROUP.
DOWNLOAD FILES, INCLUDING *THE
CARRIER* IN **FULL COLOR** AS WELL AS
SHARE INFORMATION WITH THE
MEMBERSHIP AT:

<http://groups.yahoo.com/group/mdarc>

Mount Diablo Amateur Radio Club W6CX
P.O. Box 23222 Pleasant Hill, CA 94523
(925) 288-1730

The Carrier is a monthly publication of the Mount Diablo Amateur Radio Club (MDARC). It is the policy of the editor to publish all material submitted by the membership provided such material is in good taste, relevant to amateur radio and of interest to MDARC members, and provided space is available.

President - Mike Patterson, N6JGA
Vice President - Will Dickson, WB6YGI
Secretary - David Molstad, WB0HNY
Treasurer - Bill Swindell, K1LED

Technical Committee Chair
Jim Siemons, AF6PU

Directors At Large
Trevor Hall, WA6JAU Mitchell Boyce, W8DOD
Janice Fujii, KG6VTD Francis O'Leary, KF6FRJ

Emergency Coordinator - Ron Bunch, W4FEK

PACIFICON 2015
Chair: Trevor Hall, WA6JAU
Registration: Misa Siemons, KJ6BUE
Treasurer: Jim Siemons, AF6PU
Secretary: Pete Harris, KE6ZIW
Web Page: Mike Patterson, N6JGA

Membership Chair - Tom Deeble, KA6SIP
mdarcmembership@mdarc.org

Website - David Schild, KK6CQX
Repeater Trustee - Jay Caldis, KT6Y
Education & Training Chair - John Primus, AF6RJ
License Testing - Larry Loomer, KI6LNB
Public Service - Pete Harris, KE6ZIW
Field Day Chairs - Lauren Styles, WA6CIE and
Elizabeth Styles, KG6HLV

Refreshments: Elizabeth Styles KG6HLV
Holiday Party - Misa Siemons KJ6BUE
Trailer - Patrick Miller, KK6DBX

The Carrier Newsletter
Editor, Matthew G. Vurek, N4DLA
n4dla_cs245@yahoo.com
Proofreader - Larry Loomer, KI6LNB

Digital Media - David Molstad WB0HNY
Amateur Television Help and Information:
John Schuler, W6DTV JOHNQRZ@aol.com

PRESIDENT'S QTC

The summer is well underway and the Club has been busy. Pete Harris's, KE6ZIW, Public Service team has successfully finished seven of the twelve events we have scheduled for this year. I heard a busy repeater for a good part of the morning on July 4th, as the Team handled coordination for the Pleasant Hill Independence Day Parade. Thanks to everyone there for giving up your holiday morning.

Larry Loomer's, KI6LNB, VE Team continues to crank out the new Hams, both before our meetings and in assistance to other groups. Not only did he have a busy session at our last meeting (count 'em: 16 new hams and 4 upgrades, including 3 that went from zero to General), his team also assisted Walnut Creek CERT bring another 22 new hams into our fold, including the city's Emergency Planner. John Primus's, AF6RJ, Training Team finished up their Spring session with an excellent tutorial on the Buddipole antenna by Pete Harris. I now know a lot more about the Buddipole that I did before. The Team is hard at work getting ready to start the Fall season with sessions on upgrading to General Class, beginning August 6. Send a note to "HamRadioClass@gmail.com" to sign up. John reports an average student attendance of 27 at the Spring session classes, and 21 have already registered for the August General class. An outstanding success.

Jim Siemens', AF6PU, Technical Committee continues its testing of the digital ATV system; with an eye to migrating to digital format transmissions full time. Recently the test digital system on South Peak was moved to North Peak with the rest of our ATV equipment. Jim reports an immediate substantial improvement in coverage area and clarity. In fact, we'll hear an update on this topic at our next meeting. See the speaker announcement in this issue. Pat Miller's, KK6DBX, Trailer Committee has resolved the paperwork issues with the Club trailer and is starting work on a proposal to repair and upgrade it to make it a truly useful asset to the Club.

And of course, Lauren Styles', WA6CIE, Field Day team did a fine job with limited resources in Heather Farm Park again this year. We were only able to field two stations, and the bands were not cooperative for a period, but a good time was had by all. Charles Henry, KG6PHZ, brought in his famous Burning Man solar panel array again this year and ran the entire site with it. We had a number of visitors, both hams and non-hams, including some ARRL officials. Hopefully we convinced some of them to give Ham radio and our Club a try. We even received some press coverage on the ClayCord web site. Go to our web site, at <http://www.mdarc.org/activities/field-day>, for links to several photos of the weekend and the news article.

We mustn't forget Pacificon. It's fast approaching. If you haven't made your reservations, do so soon. The hotel rooms are almost full, and the last vendor booth inside the Exhibit Halls has been reserved, though we do have a few booths and tables in the hallway still available. Also, we just announced our Keynote Speaker for the Banquet. Go to <http://www.pacificon.org/> for details. Clearly, a big crowd will be there this year. Don't miss out.

Remember to shop on Amazon Smile at <https://smile.amazon.com/ch/23-7072059> to donate to MDARC; and please consider volunteering for the Club. No experience necessary. Our Club and all the activities we do, like those above, can't exist unless you volunteer.

73,

Mike Patterson

N6JGA

President

Board of Directors Meeting Minutes June 1, 2015 1900 Hours

Presided over by Board President Mike Patterson, N6JGA

Recorded by David Molstad WB0HNY, Board Secretary

The meeting was held at the Black Bear Diner 700 Bancroft Rd, Walnut Creek, California

Call to order 1900 Hours

I. Roll Call (of all attendees) names darkened not in attendance

Club Officers

Title	Name/Call	Email
President	Mike Patterson, N6JGA	president@mdarc.org
Vice President	Will Dickson, WB6YGJ	mailto:Vicepresident@mdarc.org
Secretary	David Molstad, WB0HNY	org
Treasurer	Bill Swindell, K1LED	mailto:K1LED@arrl.com
Emergency Communications Director	Ron Bunch, W4FEK	mailto:ron.races@arrl.com
Director at Large	Janice Fujii, KG6VTD	
Director at Large	Mitchell Boyce, W8DOD	
Director at Large	Trevor Hall, WA6JAU	
Director at Large	Francis O'Leary, KG6FRJ	
Member	Ray Gaschk, AG6SI	

Committee Chairs and Positions

	Name/Call	Email
Auction	Bill Swindell, K1LED	k1led@arrl.net
Communications Trailer	Patrick Miller, KK6DBX	pm01386@gmail.com
Digital Media	Open	
Directory Coordinator	Jim Bunk, N6BHX	n6bh@arrl.net
Education and Training	John Primus, AF6RJ	af6rj@arrl.net
Field Day	Lauren Styles, WA6CIE	waf6cie@arrl.net
Good & Welfare Coordinator	Chuck Graham, KI6DCD	graham.chuck@gmail.com
Holiday Banquet /Coordinator	Misa Siemons, KJ6BUE	misa@siemons.com
License Testing	Larry Loomer, KI6LNB	lLaryloomer@yahoo.com
Membership Coordinator	Tom Deeble, KA6SIP	Ka2sip@arrl.net
Newsletter Editor	Mathew Vurek, N4DLA	N4dla_cs245@yahoo.com
Outreach Coordinator	Jim Siemons, AF6PU	Siemons@me.com
PACIFICON	Trevor Hall WA6JAU	wa6jau@sbcglobal.net
Public Service Coordinator	Pete Harris, KE6ZIW	pharris@comcast.net
Refreshment Coordinator	Elizabeth Styles, KG6HLV	
Scholarship	Ron Luttringer, K6XC	
Technical	Jim Siemons, AF6PU	Siemons@me.com
Youth Education	Open	
Audit Committee	Cathi Walton KJ6YNO	Cathi.walton@gmail.com



II. Approval of Minutes from last meeting David Molstad WB0HNY
Approved with edits

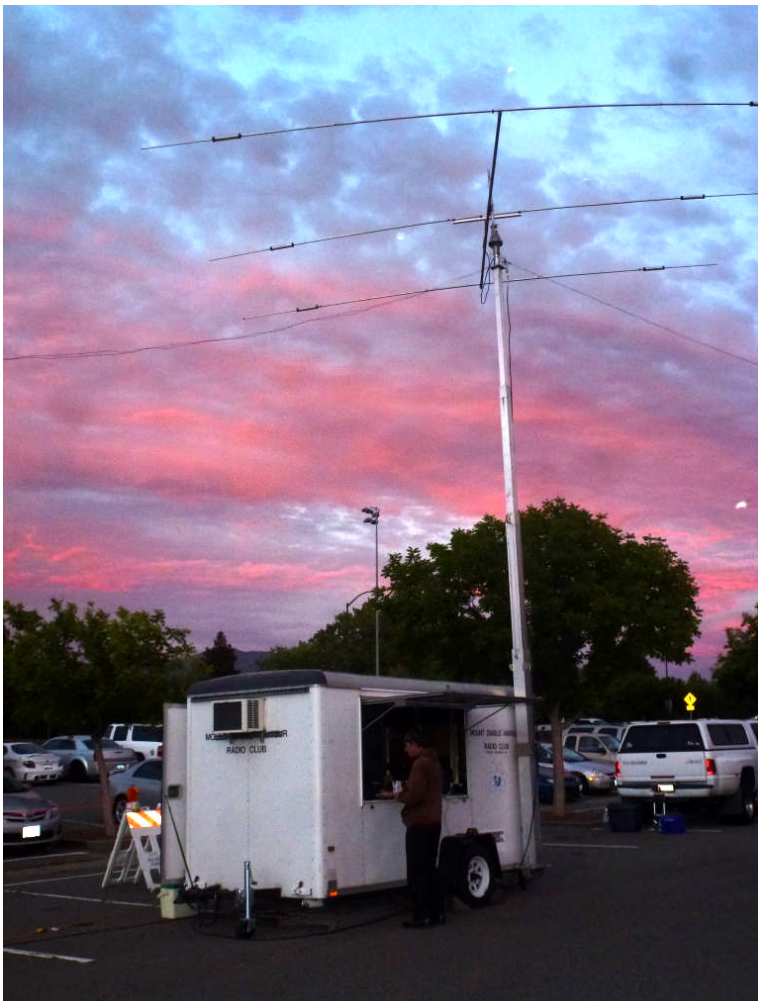
III. Officers Reports

- a) President Mike Patterson N6JGA
79 people attended last Club meeting
Ships on the Air this weekend
ARRL Northwest Convention, SEAPAC
Attendees from Idaho, Montana, Oregon, Washington
Attendance near PACIFICON levels
Found receipt from HRO for ICom 2720
QST recognizing Volunteers
Jim Brunk, N6BHX # 5 in CA as Volunteer Tester
Larry Loomer, K16LNB #1 in nation for Public Service
- b) Vice President Will Dickson, WB6YGJ
Speakers for Club Meetings
June, Chris Wilson N0CSW, Yaesu
July, Joel Whilwhite KD6W ATV
August, Open
September, Open
October, PACIFICON
November, Eduardo Gonzales-Fuentes
December, Holiday Event
- c) Secretary David Molstad WB0HNY—No Report
- d) Treasurer Bill Swindell, K1LED
MDARC balance, \$65,145.39
PACIFICON balance, \$10,114.05
Total account balances \$75,259.44
Comments by Mike
ARRL changing Insurance Brokers
No changes locally until after Field Day

IV. Committee, Coordinator Reports

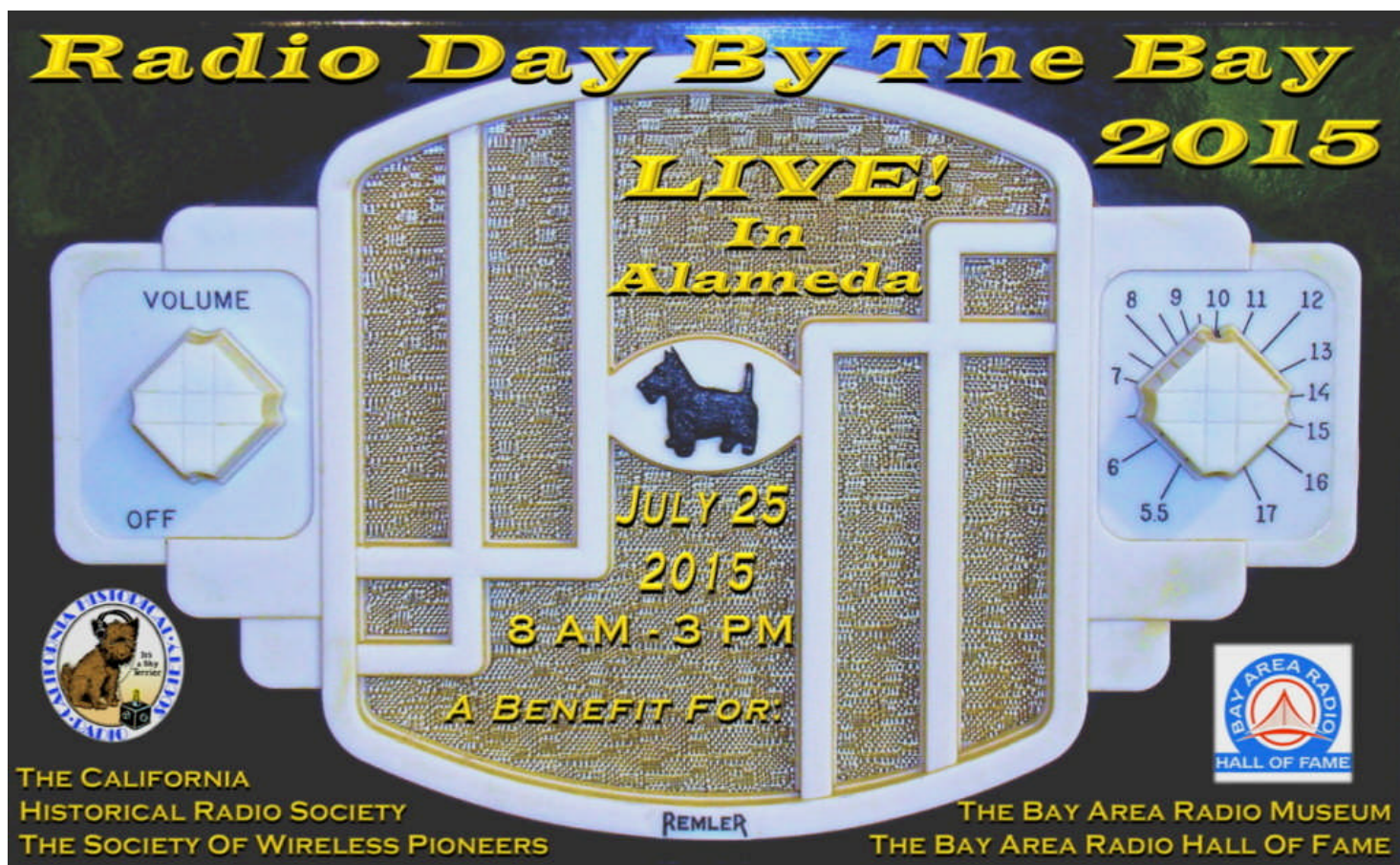
- a) Auction Bill Swindell, K1LED - No Report
- b) Communications Trailer Patrick Miller, KK6DBX
Mike for Pat
Trailer covered under MDARC liability carrier
Pat can now start designing interior
Still looking for Pink Slip for trailer
- c) Digital Media Open
Mike
Still looking for Chair
Looking for names and club information
for achieve
Web pages being modified “as we go”
Looking to create a complete list of clubs in Bay Area
MDARC Store site almost ready
The intent is to be able to order an pay on the website
plus on line application for membership
Eventually MDARC will be the go to site for all Hams

- d) Education and Training John Primus AF6RJ
 Fall 2015 General License Course Aug 6th
 Elmer's needed contact Larry or Glenn
 Emergency Preparedness had 55 attendees
 Auxiliary Training had 99 attendees
 Total Students for 2015 so far, 182
 Buddipole Basics, June 25, 2015
- e) Emergency Communications Ron Bunch W4FEK
 Found a retired Fire Chief who will talk about Emergency Communications from Fire Department at PACIFICON
- f) Field Day Lauren Styles WA6CIE Mike for Lauren,
 One more Band Captain needed. Banner and signs needed to direct public to MDARC location at the Park
- g) Good and Welfare Chuck Graham KI6DCD
 Mike for Chuck One condolence card sent
- h) License Testing Larry Loomer KI6LNB
 Mike for Larry One new Tech One new Extra
- i) Membership Tom Deeble KA6SIP No report
- j) Outreach Jim Siemons AF6PU 3 phone calls this month Class inquiries New members
- k) PACIFICON Trevor Hall WA6JAU
 Focus on Website. Registration Page up. Working on Forums Schedule. ARRL involvement – Booths. Power to Ball Rooms. Accounts Receivable Concerns. Open issues remain open. Swap Meet questions
- l) Public Service Pete Harris KE6ZIW. Mike for Pete. ARRL Reports and forms are tedious
 Looking to ARRL to condense forms.
- m) Scholarships Ron Luttringer, K6XC. Table to next month
- n) Technical Jim Siemons AF6PU
 DATV broadcasting test pattern with call sign. No working receiver yet, solutions evasive. AM reception on ATV just OK. 2 Meter interference from outside source. Report that DSTAR had been down. Unknown problem, equipment OK. Possible faulty cable, replaced. DSTAR working properly. Tech Meeting Sat in Pittsburgh. Question regarding ATV receiver antenna. ComSites West, re; chores for rent. Four page form, appears reasonable. Offset rent by performing site maintenance
- o) Youth Education Open
- p) Ad Hoc Reports None
- V) Old or unfinished business None
- VI) New Business
 Mike. Club Stability. Complete reliance on PACIFICON for funds. Look for other revenue sources. Hilltop rent largest expense. Open for suggestions. Need to create income stability. Swap Meets? Incentives to join MDARC?
- VII) Meeting adjourned.



**W6CX Field Day operations at Heather Farm Park in Walnut Creek, California on Saturday evening June 27, 2015.
(Photos by N4DLA)**





The California Historical Radio Society will hold its annual auction beginning at 9am on July 25, 2015 at its Radio Day by the Bay celebrations at 2152 Central Avenue in Alameda.

See <http://www.californiahistoricalradio.com> .

There will be lots of ham gear in the flea market (as is), on Central Avenue.

There is working ham gear in the auction, at least three working Hallicrafters receivers, and lots of great old radios.

Remote bidding is encouraged:

Below is the best link. The auction catalog link is huge and right below that is an explanation of the remote bidding and the link to the on-line bidding form.

<http://www.californiahistoricalradio.com/radio-day-by-the-bay-2015-alameda/>

Come visit for old radio, old radio programs, e.g. LIVE “War of the Worlds,” great live music and did I mention old radio?

73 de Bart Lee, K6VK

HAM RADIO OUTLET

14 STORE BUYING POWER!

ICOM



IC-7600 | All Mode Transceiver

- 100W HF/6m Transceiver, gen cov. receiver • Dual DSP 32 bit • Three roofing filters- 3, 6, 15kHz • 5.8 in WQVGA TFT display • Hi-res real time spectrum scope



IC-7200 | HF Transceiver

- 160-10M • 100W • Simple & tough with IF DSP • AGC Loop Management • Digital IF Filter • Digital Twin PBT • Digital Noise Reduction • Digital Noise Blanker • USB Port for PC Control



IC-7100 | All Mode Transceiver

- HF/50/144/430/440 MHz Multi-band, Multi-mode, IF DSP • D-STAR DV Mode (Digital Voice + Data) • Intuitive Touch Screen Interface • Built-in RTTY Functions



ID-5100A | VHF/UHF Dual Band Digital Transceiver

- Analog FM/D-Star DV Mode • SD Card Slot for Voice & Data Storage • 50W Output on VHF/UHF Bands • Integrated GPS Receiver • AM Airband Dualwatch • FM Analog/DV Repeater List Function

ID-51A | VHF/UHF Dual Band Transceiver

- 5/2.5/1.0/0.5/0.1W Output • RX: 0.52-1.71, 88-174, 380-479 MHz** • AM/FM/FM-N/WFM/DV • 1304 Alphanumeric Memory Chls • Integrated GPS • D-STAR Repeater Directory • IPX7 Submersible



KENWOOD



TS-590SG | HF/50MHz Transceiver

- Equipped with 500 Hz/2.7 kHz roofing filter as standard • ALC derived from TS-990S eliminating spike issues • Antenna output function (shared with DRV connector) • CW - morse code decoder function



TM-D710G | 2M/440 Dualband

- V+V/V+U/U+U operation • Built-in GPS • Built-in TNC for APRS & DX-Cluster operation • 50W 2M & UHF • 1,000 memories • Dual receive • Green or amber backlight colors • Latest APRS firmware w/new features • Sky Command II remote functions



TM-V71A | 2M/440 DualBand

- High RF output (50W) • Multiple Scan • Dual receive on same band (VxV, UxU) • Echolink® memory (auto dialer) • Echolink® Sysop mode for node terminal ops • Invertible front panel • Choice of green/amber for LCD panel • 104 code digital code squelch



TM-281A | 2 Mtr Mobile

- 65 Watt • 200 Memories • CTCSS/DCS • Mil-Std specs • Hi-quality audio

TH-F6A | 2M/220/440

- Dual channel receive • .1 - 1300 MHz (cell blocked) RX • FM, AM, SSB • 5W 2M/220/440 TX, FM • 435 Memories • Li-Ion Battery



YAESU
The radio



FT-991 | HF/50MHz/2M/440 Transceiver

- 160 M-440MHz - SSB/CW/FM/C4FM Digital/AM/RTTY/PSK • 100 W (2M/440: 50 Watts) • 3.5" TFT full-color touch panel operation • High speed spectrum scope • Roofing filters: 3kHz & 15kHz • 32-bit high speed floating point IF DSP



FTDX1200 | 100W HF + 6M Transceiver

- Triple Conversion Receiver With 32-bit Floating Point DSP • 40 MHz 1st IF with selectable 3 kHz, 6kHz & 15 kHz Roofing Filters • Optional FFT-1 Supports AF-FFT Scope, RTTY/PSK31 Encode/Decode, CW Decode/Auto Zero-In • Full Color 4.3" TFT Display



FT-450D | A100W HF + 6M Transceiver

- 100W HF/6M • Auto tuner built-in • DSP built-in • 500 memories • DNR, IF Notch, IF Shift



FTM-400DR | 2M/440 Mobile

- Color display-green, blue, orange, purple, gray • GPS/APRS • Packet 1200/9600 bd ready • Spectrum scope • Bluetooth • MicroSD slot • 500 memory per band

FT-60R | 2M/440 5W HT

- Wide receiver coverage • AM air band receive • 1000 memory channels w/alpha labels • Huge LCD display • Rugged die-cast, water resistant case • NOAA severe weather alert with alert scan



5 Ways to Shop!

- RETAIL LOCATIONS - Store hours 10:00AM - 5:30PM - Closed Sunday
- PHONE - Toll-free phone hours 9:30AM - 5:30PM
- FAX - All store locations
- ONLINE - WWW.HAMRADIO.COM
- MAIL - All store locations

ANAHEIM, CA
(800) 854-6046

OAKLAND, CA
(877) 892-1745

SUNNYVALE, CA
(877) 892-1749

PORTLAND, OR
(800) 765-4267

PHOENIX, AZ
(800) 559-7388

WOODBIDGE, VA
(800) 444-4799

PLANO, TX
(877) 455-8750

BURBANK, CA
(877) 892-1748

SAN DIEGO, CA
(877) 520-9623

NEW CASTLE, DE
(800) 644-4476

DENVER, CO
(800) 444-9476

ATLANTA, GA
(800) 444-7927

SALEM, NH
(800) 444-0047

ONLINE STORE
WWW.HAMRADIO.COM

New Store!

Contact HRO for promotion details. Toll-free including Hawaii, Alaska and Canada. Call will be routed to the nearest store. All HRO 800-lines can assist you. If the first line you call is busy, you may call another. AZ, CA, CO, GA, VA residents add sales tax. Prices, specifications and descriptions subject to change without notice.



The Carrier

Newsletter of the Mt. Diablo Amateur Radio Club

P.O. Box 23222

Pleasant Hill, CA 94523

www.mdarc.org

FIRST CLASS



<https://smile.amazon.com/ch/23-7072059>

<https://www.facebook.com/mdarc.org>

W6CX Nets

Monday 7:00 pm Washington High School Net 147.060+

Monday 8:00 pm SATERN Net 147.060+

Thursday 7:30 pm MDARC Club Net 147.060+

Thursday 8:00 pm Amateur Television Net 147.060+

Tuesday 7:30 pm Fat City 10 meter USB/CW Net 28.420 MHz

FM 147.060 MHz + / PL 100Hz - EchoLink: W6CX-R /133896, IRLP: 3057
224.780 MHz - / PL 77Hz 441.325 MHz + / PL 100Hz

D-STAR 145.000 offset plus 2.5 MHz

<https://w6cx.dstargateway.org/> Digital ATV Output 1253.000

ATV Inputs: 1289.25 MHz AM; 1277.000 FM pl 192.8 Output 1241.25 MHz AM

ATV Internet Stream: <http://www.w6cxatv.net/live>

Contra Costa County Emergency Communications Nets

Every Thursday

<http://www.coco-races.org/meetings/nets/>

6:35 pm HF Countywide 3.893 MHz LSB

6:45 pm West County 145.110-- (82.5 PL)

7:00 pm Central County 145.680 Simplex

7:00 pm East County 146.535 Simplex

7:00 pm South County 146.355+ (77.0 PL)

7:20 pm Countywide 145.490-- (107.2 PL)

or 147.735+ (107.2 PL)

or 145.410 -- (107.2 PL)

Concord Auxiliary Radio Emergency Service (CARES)

Wednesday 8:00pm 147.405 Simplex

July and August 2015

Friday July 17, 2015 7:30pm

Monday August 3, 2015 7:00 pm

Saturday August 1, 2015 8:00 am

Friday August 21, 2015 7:30pm

Club Calendar

MDARC General Meeting -

Our Saviors Lutheran Church, 1035 Carol Lane, Lafayette

MDARC Board Meeting

Black Bear Restaurant, 700 Bancroft Avenue, Walnut Creek

MDARC Technical Committee

****CANCELED****

MDARC General Meeting

Our Saviors Lutheran Church, 1035 Carol Lane, Lafayette